

# LaTeX packages

January 25, 2022

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# 1 Section

Dummy text

## 1.1 Subsection

Dummy text

# 2 Another Section

Dummy text

This part can be used with package ‘amsmath’

$$f(x) = x^2$$

This part can be used with package ‘graphicx’

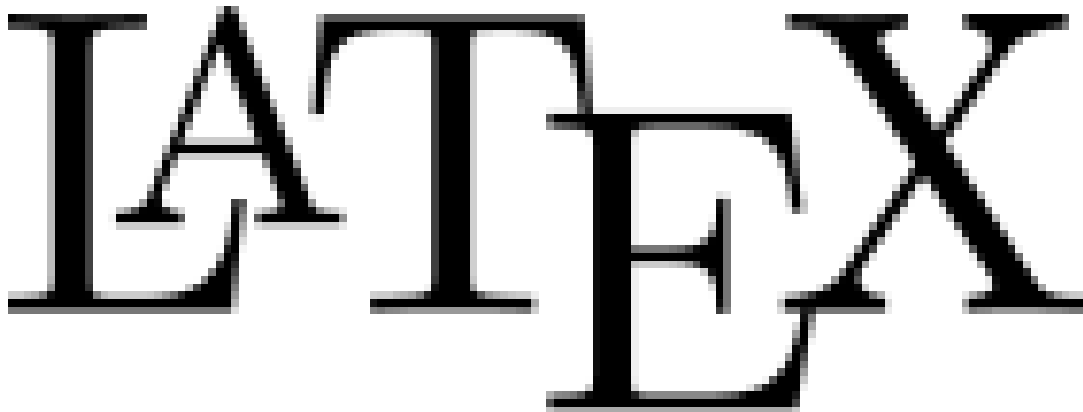
A large, bold, black serif font logo for LaTeX, consisting of the letters 'L', 'A', 'T', 'E', and 'X' in a stylized, slightly irregular arrangement.

Figure 1: LaTeX figure

For subfigures, package ‘subcaption’ is needed

Two identical LaTeX logos from Figure 1 are placed side-by-side, separated by a wide space.

(a) 1

(b) 2

Figure 2: Two subfigures

### 3 Tables

<b>Normal table</b>	A	B	C
	L	C	R
	left	center	right
	1	2	3
	1.01	2.02	3.03
	1.1	2.002	3.003

<b>booktabs</b>	A	B	C
	L	C	R
	left	center	right
	1	2	3

<b>Aligned decimal</b>	1.000	2.000	3.000
	1.010	2.020	3.030
	1.100	2.002	3.003

<b>multirow table</b>	A	B C	C R
	L left	center	right
	1	2	

**longtable**

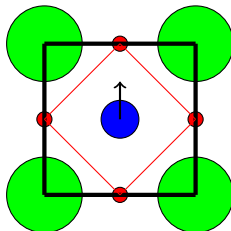
A	B	C
L	C	R
left	center	right
1	2	3
2	2	3
3	2	3
4	2	3
5	2	3
6	2	3
7	2	3
8	2	3
9	2	3
10	2	3
11	2	3
12	2	3
13	2	3
14	2	3
15	2	3
16	2	3
17	2	3

A	B	C
L	C	R
left	center	right
18	2	3
19	2	3
20	2	3
21	2	3
22	2	3
23	2	3
24	2	3
25	2	3
26	2	3
27	2	3
28	2	3
29	2	3
30	2	3

Rotated table

A	B	C
L	C	R
left	center	right
1	2	3

## 4 Drawing



These are citations<sup>1</sup> and Paul et al. (“Ferroelectric Phase Transitions in Ultrathin Films of  $\text{BaTiO}_3$ ”, p. 1) using biblatex.

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<sup>1</sup>Nishimatsu et al., “Fast molecular-dynamics simulation for ferroelectric thin-film capacitors using a first-principles effective Hamiltonian”, p. 2.

## References

**Nishimatsu et al.: Fast molecular-dynamics simulation for ferroelectric thin-film capacitors using a first-principles effective Hamiltonian**  
**PhysRevB.78.104104**

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Takeshi Nishimatsu et al. “Fast molecular-dynamics simulation for ferroelectric thin-film capacitors using a first-principles effective Hamiltonian”. In: *Phys. Rev. B* 78 (10 2008), p. 104104. DOI: 10.1103/PhysRevB.78.104104. URL: <https://link.aps.org/doi/10.1103/PhysRevB.78.104104>.

**Paul et al.: Ferroelectric Phase Transitions in Ultrathin Films of BaTiO<sub>3</sub>**  
**PhysRevLett.99.077601**

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Jaita Paul et al. “Ferroelectric Phase Transitions in Ultrathin Films of BaTiO<sub>3</sub>”. In: *Phys. Rev. Lett.* 99 (7 2007), p. 077601. DOI: 10.1103/PhysRevLett.99.077601. URL: <https://link.aps.org/doi/10.1103/PhysRevLett.99.077601>.